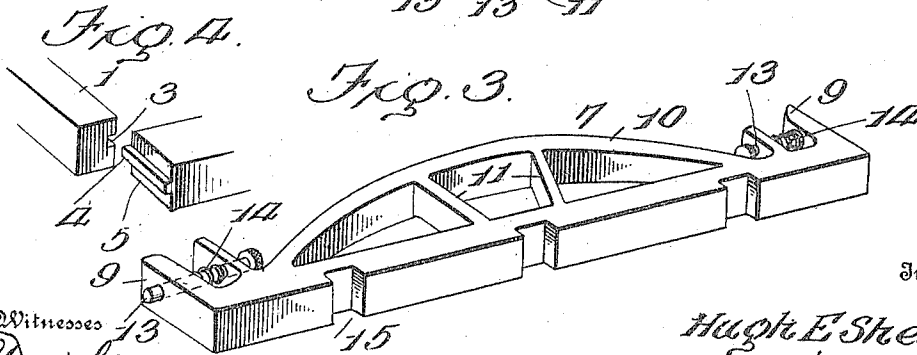
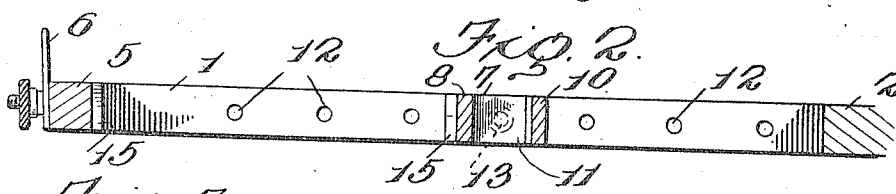
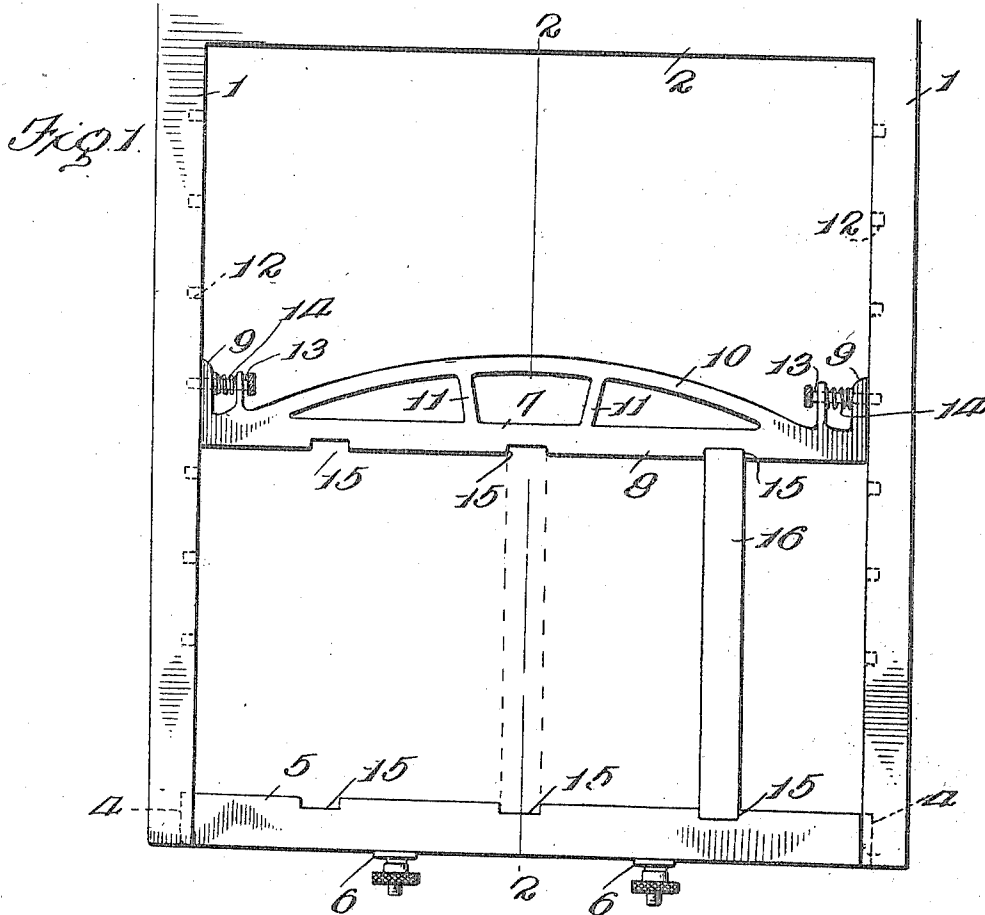


H. E. SHEDD.
ATTACHMENT FOR PRINTING PRESSES.
APPLICATION FILED MAR. 9, 1909.

947,721.

Patented Jan. 25, 1910.



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HUGH E. SHEDD, OF AUSTIN, MINNESOTA.

ATTACHMENT FOR PRINTING-PRESSES.

947,721.

Specification of Letters Patent. Patented Jan. 25, 1910.

Application filed March 9, 1909. Serial No. 492,251.

To all whom it may concern:

Be it known that I, HUGH E. SHEDD, a citizen of the United States, residing at Austin, in the county of Mower and State of Minnesota, have invented certain new and useful Improvements in Attachments for Printing-Presses, of which the following is a specification.

The invention relates to an improvement in printing presses, being more particularly directed to a bed-lock for ink table distribution presses, in the use of which the press bed of a cylinder printing press may be divided to provide for properly locking the form in position without regard to the size of the latter.

In its essential characteristic the present invention includes a divider which, together with fixed parts of the bed proper, is so formed that it may be locked in any desired position longitudinally of the bed to provide a transverse division, whereby in effect the longitudinal dimensions of the bed may be reduced in approximate accordance with the similar dimensions of the particular form to be used.

As an auxiliary feature the divider proper together with the front locking bar of the bed is formed to permit the arrangement of longitudinally disposed dividing bars, so that the form-receiving space in advance of the divider may be further adjusted as to its transverse dimension in more or less accordance with the width of the form to be used.

The invention will be described in the following specification, reference being had particularly to the accompanying drawings, in which:—

Figure 1 is a plan view of a type bed and ink distribution table illustrating my improvement. Fig. 2 is a vertical longitudinal section of the same on the line 2—2 of Fig. 1. Fig. 3 is a perspective of the divider. Fig. 4 is a fragmentary perspective illustrating the connection between the side bars and the locking bar.

Referring particularly to the accompanying drawings the improved type bed is shown as including side bars or bearers 1, which at their rear ends are joined to the usual ink table 2. At their forward ends the bearers 1 are formed on their relatively inner or adjacent edges with longitudinally extending grooves 3, designed to receive end tenons 4 projecting from a front locking bar 5 of the

bed. Clamps 6 of appropriate form are arranged to engage the relatively forward edge of the locking bar to prevent the independent forward movement of the latter, as is usual in beds of this type.

In the use of forms of different sizes with the type bed it is of course essential that the form have a certain and definite printing position, generally near the front end of the bed. If the form is of materially less size than the bed it is necessary to fill in the remaining space, and this is ordinarily done by the use of furniture. In practice it is found extremely difficult to pack the bed with the furniture so as to prevent the latter from jumping up in the printing operation, and this is particularly true where the form is only half or less than half the size of the bed. The present invention is designed to avoid the objections incident to the use of the furniture as above noted, by the provision of a divider which may be locked in any desired position longitudinally of the bearers so as to reduce the length of the bed in approximate correspondence with the length of the form.

The divider comprises a metallic body 7 including a bearing bar 8 having rearwardly extending guide arms 9 projecting from the ends of the bar, a curved brace bar 10 connected by webs 11 to the bar 8 being arranged on the rear side of the latter for increasing the strength of the divider.

In connection with the divider I contemplate the use of any desired means for locking the same in appropriate positions lengthwise the bearers, preferring, however, for simplicity and ease of operation the following construction for such purpose. The relatively inner edges of each of the bearers is formed with a series of longitudinally alined holes 12 arranged at any desired intervals throughout the length of the bearers. Each hole of one bearer has a corresponding hole in the other bearer in alinement therewith transverse the bed, and the guide arms 9 of the divider are provided with pins 13, spring pressed in the outward direction by springs 14, and adapted to seat in any of the openings 12. As thus arranged it will be evident that the divider may, by the simple manipulation of the pins 13, be locked in any position longitudinally of the bed, whereby to reduce the length of the bed and in effect form a new bed for the reception of the

form which has the forward locking bar for its front edge and the divider, or bearing bar 8 thereof, for its rear edge.

As the space of the bed in front of the divider is the form-receiving space, and as it frequently happens that the form to be used is of materially less width than the width of the bed or two different forms may be running at the same time, provision must be made for dividing the form-receiving space of the bed longitudinally. To this end the bearing bar 8 of the divider and the proximate or inner edge of the locking bar 5 are formed with notches or depressions 15, arranged in longitudinally alined pairs, and adopted to receive dividing bars 16. These bars will, therefore, serve to divide the form-receiving space in advance of the divider proper longitudinally of the bed thereby reducing the width of said space. It is, of course, to be understood that the notches 15 may be in any desired number and the divider bar 16 in appropriate lengths to form any required division of the form-receiving space. The divider bars in connection with the divider proper will permit the independent locking of different forms in the bed, an advantage readily appreciated by pressmen.

The invention provides for the ready and convenient adjustment of the longitudinal and transverse dimension of the press bed in approximate accordance with the similar dimensions of the form, whereby the latter may be quickly and securely locked in position with the minimum of furniture, and the liability of displacement of the form or other furniture entirely avoided.

Having thus described the invention what is claimed as new, is:—

1. The combination with a type bed including side bars formed on their inner edges with a series of openings, and a locking bar removably engaging the side bars, of a divider including a bearing bar having a maximum length equal to the distance between the side bars, and guide arms projecting from the ends of the bearing bar in a direction away from the form engaging face of said bar, the bar and arms being of a height equal to the similar dimensions of the side bars with the guide arms bearing throughout their lengths on the inner sur-

faces of the side bars, and means carried by the guide arms to engage the openings in side bars whereby to secure the divider in place, the form engaging face of the bearing bar and the proximate face of the locking bar being formed with notches, and a dividing bar adapted to seat in alined notches, of the locking bar and bearing bar.

2. An article of manufacture, an integral divider bar for printing beds, comprising a bearing bar of the maximum length equal to the full interior width of the bed, arms projecting from the respective ends of the bar with their outer surfaces in alinement with the ends of the bar, spring actuated locking devices mounted in the arms, a curved brace bar having its ends coincident with the bearing bar and its central portion spaced the maximum distance from the proximate center of said bar, and webs connecting the brace bar and bearing.

3. The combination with a type bed including side bars formed on their inner edges with a series of openings and at their ends with a guide, and a locking bar co-operating with the guides in the ends of the side bars, and removably mounted, of a divider including a bearing bar having a maximum length equal to the distance between the side bars, and guide arms projecting from the ends of the bearing bar in a direction away from the form engaging face of said bar, the bar and arms being of a height equal to the similar dimensions of the side bars with the guide arms bearing throughout their lengths on the inner surfaces of the side bars, and spring actuated means carried by the guide arms to engage the openings in the side bars whereby to secure the divider in place, the form engaging face of the bearing bar and the proximate face of the locking bar being formed with notches, a dividing bar adapted to seat in alined notches of the locking bar and bearing bar and clamps carried by the locking bar.

In testimony whereof I affix my signature in presence of two witnesses.

HUGH E. SHEDD.

Witnesses:

M. J. KENNEDY,
V. E. WRIGHT.